

### Solving Percent Problems

Recall that percent means "divided by 100".

$$\text{So } 15\% = \frac{15}{100} = .15$$

Solving percent problems with proportions.

$$\frac{P}{100} = \frac{\text{is}}{\text{of}}$$

Ex What number is 12% of 85?

→ this will be one of my ratios in the proportion

$$\frac{12}{100} \times \frac{x}{85}$$

$$\frac{100x}{100} = \frac{1020}{100}$$

$$x = 10.20$$

Ex what percent of 60 is 9?

$$\frac{x}{100} \times \frac{9}{60}$$

$$\frac{900}{60} = \frac{60x}{60}$$

$$15\% = x$$

Oct 20-1:19 PM

### Percent Equation

$$a = p\% \text{ of } b$$

↓  
means multiply

$$a = p\% \cdot b$$

What percent of 60 is 9?

$$\frac{9}{60} = \frac{p\% \cdot 60}{60} \quad \text{divide both sides by 60}$$

$$.15 = p\%$$

$$15\% = p$$

What number is 12% of 85?

$$a = 12\% \cdot 85$$

$$a = .12 \cdot 85$$

$$a = 10.2$$

Oct 20-1:32 PM